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PN - JP3245829 A 19911101  
PD - 1991-11-01  
PR - JP19900043859 19900223  
OPD - 1990-02-23  
TI - APPARATUS FOR DISSOLVING POWDER  
IN - OZAWA MASAKATSU  
PA - OZAWA MASAKATSU  
EC - B01F7/16D ; B01F15/00P  
IC - B01F1/00

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TI - Powder dissolving device - has polygonal section vessel, rotary vane attached to shaft and guide plate at inner periphery of vessel wall  
PR - JP19900043859 19900223  
PN - JP3245829 A 19911101 DW199150 000pp  
- JP6007912B B2 19940202 DW199408 B01F7/16 000pp  
PA - (OZAW-I) OZAWA M  
IC - B01F1/00 ; B01F7/16  
AB - J03245829 Device includes dissolving vessel having polygonal section with arch corners, rotary vane fitted to rotary shaft journaled to bottom at corner and inclined toward central portion of dissolving vessel, means for driving rotary vane, and guide plate provided at inner peripheral wall of dissolving vessel in orthogonal direction of rotary vane and having tip projecting toward central line of dissolving vessel.  
- ADVANTAGE - Powder can be effectively stirred. (4pp Dwg.No.0/6 )  
OPD - 1990-02-23  
AN - 1991-365669 [50]

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TI - APPARATUS FOR DISSOLVING POWDER

- AB
- **PURPOSE:** To efficiently and uniformly dissolve a powder by mounting a dissolving tank having a plane polygonal shape, an inclined rotary blade, an inclined drive means and a guide plate protruding toward the center of the dissolving tank.
  - **CONSTITUTION:** When a fixed amount of a dissolving solution is supplied to a dissolving tank 1 and a drive motor 6 is operated, the rotary blade 3 provided to the bottom part of the dissolving tank 1 is rotationally driven in a clockwise direction and the dissolving solution receives the scooping-up action and stirring action due to the front surfaces of ribs 3a to generate right-handed and left-handed streams in the dissolving tank 1. The generated streams meet each other by the guide action of the guide plate 12 in the diagonal direction of the rotary blade 3 and fall toward the center part of the rotary blade 3 while meet mutually and again come into contact with the rotary blade 3 to become right-handed and left-handed streams going upwardly. When a powder is charged to the dissolving tank 1 in this state, the powder is carried by the flow of the dissolving solution to move in the dissolving tank 1 and dissolved by the frictional action of the flow along the confluent line of two streams and can be uniformly dissolved within a short time.
- I
- B01F1/00

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## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-245829

(43)Date of publication of application : 01.11.1991

(51)Int.Cl.

B01F 1/00

(21)Application number : 02-043859

(71)Applicant : OZAWA MASAKATSU

(22)Date of filing : 23.02.1990

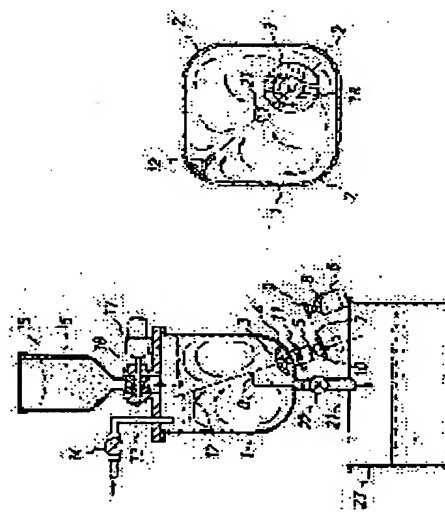
(72)Inventor : OZAWA MASAKATSU

### (54) APPARATUS FOR DISSOLVING POWDER

#### (57)Abstract:

**PURPOSE:** To efficiently and uniformly dissolve a powder by mounting a dissolving tank having a plane polygonal shape, an inclined rotary blade, an inclined drive means and a guide plate protruding toward the center of the dissolving tank.

**CONSTITUTION:** When a fixed amount of a dissolving solution is supplied to a dissolving tank 1 and a drive motor 6 is operated, the rotary blade 3 provided to the bottom part of the dissolving tank 1 is rotationally driven in a clockwise direction and the dissolving solution receives the scooping-up action and stirring action due to the front surfaces of ribs 3a to generate right-handed and left-handed streams in the dissolving tank 1. The generated streams meet each other by the guide action of the guide plate 12 in the diagonal direction of the rotary blade 3 and fall toward the center part of the rotary blade 3 while meet mutually and again come into contact with the rotary blade 3 to become right-handed and left-handed streams going upwardly. When a powder is charged to the dissolving tank 1 in this state, the powder is carried by the flow of the dissolving solution to move in the dissolving tank 1 and dissolved by the frictional action of the flow along the confluent line of two streams and can be uniformly dissolved within a short time.



### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

